

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/802,124
	Filing Date	March 15, 2004
	First Named Inventor	JONES, TIMOTHY N.
	Art Unit	Unassigned
	Examiner Name	Unassigned
Total Number of Pages in This Submission	Attorney Docket Number	018563-006010US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard PTO/SB/08A & PTO/SB/08B
Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP James M. Heslin	Reg. No. 29,541
Signature		
Date	May 5, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Edward Masinas		
Signature		Date	May 5, 2004

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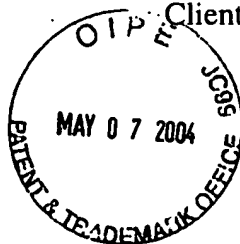
TOWNSEND and TOWNSEND and CREW LLP

By: Edward Masinas

Edward Masinas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT
Attorney Docket No.: 018563-006010US
Client Reference No.: AT-00109.1



In re application of:

TIMOTHY N. JONES et al.

Application No.: 10/802,124

Filed: March 15, 2004

For: SUBDIVIDING A DIGITAL
DENTITION MODEL

Examiner: Unassigned.

Art Unit: Unassigned

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/264,547, filed March 8, 1999 (Attorney Docket No. 018563-006000US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

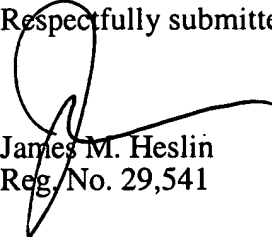
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement.

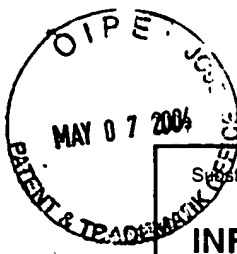
However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



James M. Heslin
Reg. No. 29,541

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60207686 v1



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **1** of **3****Complete If Known**

Application Number	10/802,124
Filing Date	March 15, 2004
First Named Inventor	JONES, TIMOTHY N.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-006010US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	1	3,660,900	05-09-1972	Andrews	
	2	3,860,803	01-14-1975	Levine	
	3	4,504,225	03-12-1985	Yoshii	
	4	4,505,673	03-19-1985	Yoshii	
	5	4,755,139	07-05-1988	Abbatte et al.	
	6	4,798,534	01-17-1989	Breads	
	7	4,856,991	08-15-1989	Breads et al.	
	8	4,936,862	06-26-1990	Walker et al.	
	9	5,011,405	04-30-1991	Lemchen	
	10	5,017,133	05-21-1991	Miura	
	11	5,035,613	07-30-1991	Breads et al.	
	12	5,055,039	10-08-1991	Abbatte et a	
	13	5,059,118	10-22-1991	Breads et al.	
	14	5,139,419	08-18-1992	Andreiko et al.	
	15	5,186,623	02-16-1993	Breads et al.	
	16	5,273,429	12-28-1993	Rekow	
	17	5,338,198	08-16-1994	Wu et al.	
	18	5,340,309	08-23-1994	Robertson	
	19	5,342,202	08-30-1994	Deshayes	
	20	5,368,478	11-29-1994	Andreiko et al.	
	21	5,382,164	01-17-1995	Stern	
	22	5,395,238	03-07-1995	Andreiko et al.	
	23	5,431,562	07-11-1995	Andreiko et al.	
	24	5,447,432	09-05-1995	Andreiko et al.	
	25	5,452,219	09-19-1995	Dehoff et al.	
	26	5,454,717	10-03-1995	Andreiko et al.	
	27	5,456,600	10-10-1995	Andreiko et al.	
	28	5,474,448	12-12-1995	Andreiko et al.	
	29	5,533,895	07-09-1996	Andreiko et al.	
	30	5,542,842	08-06-1996	Andreiko et al.	
	31	5,549,476	08-27-1996	Stern	
	32	5,587,912	12-24-1996	Andersson et ^a	
	33	5,605,459	02-25-1997	Kuroda et al.	
	34	5,607,305	03-04-1997	Anderson et al.	
	35	5,621,648	04-15-1997	Crump	
	36	5,645,421	07-08-1997	Slootsky	
	37	5,683,243	11-04-1997	Andreiko at al.	
	38	5,725,376	08-25-1998	Poirier	
	39	5,742,700	04-21-1998	Yoon et al.	
	40	5,799,100	03-10-1998	Clarke et al.	
	41	5,800,174	09-01-1998	Andersson	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete If Known		
			Application Number	10/802,124	
			Filing Date	March 15, 2004	
			First Named Inventor	JONES, TIMOTHY N.	
			Art Unit	Unassigned	
			Examiner Name	Unassigned	
Sheet	2	of	3	Attorney Docket Number	018563-006010US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	42	WO	94/10935		05-26-1994			<input type="checkbox"/>
	43	FR	2 369 828		06-02-1978			<input type="checkbox"/>

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60207686 v1

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/802,124		
		Filing Date	March 15, 2004		
		First Named Inventor	JONES, TIMOTHY N.		
		Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	3	of	3	Attorney Docket Number	018563-006010US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	44	ARS Materials, Inc., Technical Magazine, http:// www.essix.com/magazine/default.html , 08/97, 7 pgs.	
	45	Biostar Operation & Training Manual, Great Lakes Orthodontics, Ltd., 20 pgs.	
	46	Chiappone, Constructing the Gnathologic Setup and Positioner, <i>J. Clin. Orthod.</i> , Vol. 14, No. 2, 02/80, pp. 121-133.	
	47	Cottingham, Gnathologic Clear Plastic Positioner, <i>Am.J.Orthod.</i> , Vol. 55, No. 1, 01/69, pp.23-31.	
	48	Cureton, Correcting Malaligned Mandibular Incisors with Removable Retainers, <i>IC/in. Orthod.</i> , Vol. 30, No. 7, 07/96, pp. 390-395.	
	49	Elsasser, Some Observations on the History and Uses of the Kesling Positioner, <i>Am. J. Orthod.</i> , Vol. 36, 01-12/50, pp. 368-374.	
	50	Kamada et al., Construction of Tooth Positioners with LTV Vinyl Silicone Rubber and Some Case Reports, <i>J. Nihon University School of Dentistry</i> , Vol. 24, No. 1, 03/82, pp. 1-27.	
	51	Kesling, Coordinating the Predetermined Pattern and Tooth Positioner with Conventional Treatment, <i>Am. J. Orthod. Oral. Surg.</i> , Vol. 32, No. 5, 05/46, pp. 285-293.	
	52	Kesling, the Philosophy of the Tooth Positioning Appliance, <i>Am. J. Orthod. Oral. Surg.</i> , Vol. 31, No. 6, 06/45, pp. 297-304.	
	53	Kleeman et al., The Speed Positioner, <i>J. Clin. Orthod.</i> , Vol. 30, No. 12, 12/96, pp. 673-680.	
	54	Kuroda et al., Three-dimensinal Dental Cast Analyzing System Using Laser Scanning, <i>Am. J. Orthod Dentofac. Orthop.</i> , Vol. 110, No. 4, 10/96, pp. 365-369	
	55	Resin (Orthocon), <i>Nippon Dental Review</i> , Vol. 452, 06/80, pp. 61-74.	
	56	Sheridan, Moving Teeth with Essix TM Appliances: Windows & Divots TM , <i>EssixTM Appliances, Fabrication, Application and Rationale</i> , Raintree Essix &	
	57	Shilliday, Minimizing Finishing Problems with the Mini-positioner, <i>Am. J. Orthod</i> Vol. 59, No. 6, 06/71, pp. 596-599.	
	58	Warunek et al., Physical and Mechanical Properties of Elastomers in Orthodontic Positoners, <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol 95, No. 5, 05/89, pp. 388-400.	
	59	Wells, Application of the Positioner Appliance in Orthodontic Treatment, <i>Am. J. Orthodont.</i> Vol 58, No. 4, 10/70, pp. 351-366.	

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Sheet	4	of	3	Attorney Docket Number	018563-006010US

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	60	Yoshii, Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-I. The D.P. Concept and Implementation of Transparent Silicone	
	61	Yoshii, Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-II. The D.P. Manufacturing Procedure and Clinical Applications, Nippon Dental Review, Vol. 454, 08/80, pp. 107-130).	
	62	Yoshii, Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III. The General Concept of the D.P. Method and its Therapeutic Effect, Part 1. Dental and Functional Reversed Occlusion Case Reports, Nippon Dental Review, Vol. 457, 11/80, pp. 146-164.	
	63	Yoshiki, Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III. The General Concept of the D.P. Method and its Therapeutic Effect, Part 2. Skeletal Reversed Occlusion Case Reports, Nippon Dental Review, Vol. 458, 12/80, pp. 112-129.	

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